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## WHAT IS CLAIMED IS:

<ol> <li>A chemical vapor deposition system comprising</li> </ol>	ng:
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a housing that defines an enclosed deposition chamber and includes
a lower portion and an upper portion having a horizontal junction with each other;
a seal assembly that extends between the lower and upper housing
portions at their horizontal junction;

a roll conveyor located within the deposition chamber to convey glass sheet substrates along a direction of conveyance at a plane of conveyance below the horizontal junction of the lower and upper housing portions where the seal assembly is located:

a chemical vapor distributor located within the deposition chamber above the roll conveyor to provide chemical vapor deposition of a coating on the conveyed glass sheet substrates;

the housing including an entry through which the glass sheet substrates to be coated are introduced into the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located; and

the housing including an exit through which the coated glass sheet substrates leave the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located.

A chemical vapor deposition system as in claim 1 further 2. 1 including a vacuum source for drawing a vacuum within the deposition chamber, 2 the seal assembly between the lower and upper housing portions including inner and 3 outer seal members spaced from each other to define an intermediate seal space that 4 is located between the deposition chamber and the ambient and in which a vacuum 5 is drawn to a lesser extent than in the deposition chamber, and a sensor for detecting 6 the pressure within the seal space to sense leakage of either the inner seal member 7 or the outer seal member. 8

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- 3. A chemical vapor deposition system as in claim 2 wherein the seal assembly includes lower and upper seal flanges on the lower and upper housing portions, the inner and outer seal members extending between the lower and upper seal flanges to seal between the lower and upper housings, and clamps that extend between the lower and upper seal flanges to secure the upper housing portion to the lower housing portion.
- 1 4. A chemical vapor deposition system as in claim 3 wherein
  2 each clamp includes a hydraulic cylinder that provides the securement between the
  3 lower and upper seal flanges.
  - 5. A chemical vapor deposition system as in claim 1 including an oven located within the housing and having elongated heaters that extend along the direction of conveyance in laterally spaced banks to heat the conveyed glass sheet substrates and control temperature differentials of the substrates laterally with respect to the direction of conveyance.
- 1 6. A chemical vapor deposition system as in claim 5 wherein
  2 each elongated heater includes an electric resistance element through which
  3 electricity is passed to provide heating and each heater including an elongated quartz
  4 tube through which the electric resistance element extends.
- 7. A chemical vapor deposition system as in claim 5 wherein the roll conveyor includes rolls that extent through the oven and have ends projecting outwardly therefrom within the housing, and a drive mechanism that rotatively drives the roll ends outwardly of the oven within the housing.
- 1 8. A chemical vapor deposition system as in claim 7 further 2 including a screen that is located below the roll conveyor to catch any broken glass 3 sheet substrates.
- 9. A chemical vapor deposition system 6 wherein the screen is
   made of stainless steel and includes stiffeners.

10. A chemical vapor deposition system comprising:
a housing that defines an enclosed deposition chamber and includes
a lower portion and an upper portion having a horizontal junction with each other,
and the lower and upper housing portions respectively having lower and upper seal
flanges at the horizontal junction of the lower and upper housing portions;
a vacuum source for drawing a vacuum within the deposition
chamber;
a seal assembly having inner and outer seal members that extend
between the lower and upper seal flanges of the lower and upper housing portions
at their horizontal junction to seal therebetween, and the inner and outer seal
members being in spaced from each other to define an intermediate seal space in
which a vacuum is drawn between the deposition chamber and the ambient;
a sensor for detecting the pressure within the seal space to sense
leakage of either the inner seal member or the outer seal member;
a roll conveyor located within the deposition chamber to convey glass
sheet substrates along a direction of conveyance at a plane of conveyance below the
horizontal junction of the lower and upper housing portions where the seal assembly
is located;
a chemical vapor distributor located within the deposition chamber
above the roll conveyor to provide chemical vapor deposition of a coating on the
conveyed glass sheet substrates;
the housing including an entry through which the glass sheet
substrates to be coated are introduced into the deposition chamber at a location
below the horizontal junction of the lower and upper housing portions where the
seal assembly is located; and
the housing including an exit through which the coated glass sheet

A chemical vapor deposition system comprising:
 a housing that defines an enclosed deposition chamber and includes

a lower portion and an upper portion having a horizontal junction with each other,

substrates leave the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located.

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and the lower and upper housing portions respectively having lower and upper seal flanges at the horizontal junction of the lower and upper housing portions:

a vacuum source for drawing a vacuum within the deposition chamber;

a seal assembly having inner and outer seal members that extend between the lower and upper seal flanges of the lower and upper housing portions at their horizontal junction to seal therebetween, and the inner and outer seal members being in spaced from each other to define an intermediate seal space in which a vacuum is drawn between the deposition chamber and the ambient;

a sensor for detecting the pressure within the seal space to sense leakage of either the inner seal member or the outer seal member;

a roll conveyor located within the deposition chamber and having rolls for conveying glass sheet substrates along a direction of conveyance at a plane of conveyance below the horizontal junction of the lower and upper housing portions where the seal assembly is located;

an oven located within the housing with the roll conveyor conveying the glass sheet substrates therethrough, the oven having elongated heaters that extend along the direction of conveyance in laterally spaced banks to heat the conveyed glass sheet substrates and control temperature differentials of the substrates laterally with respect to the direction of conveyance, and each elongated heater including an electric resistance element through which electricity is passed to provide heating and each heater including an elongated quartz tube through which the electric resistance element extends:

a chemical vapor distributor located within the deposition chamber above the roll conveyor to provide chemical vapor deposition of a coating on the conveyed glass sheet substrates;

the housing including an entry through which the glass sheet substrates to be coated are introduced into the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located; and

the housing including an exit through which the coated glass sheet substrates leave the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located.

## 12. A chemical vapor deposition system comprising:

a housing that defines an enclosed deposition chamber and includes a lower portion and an upper portion having a horizontal junction with each other, and the lower and upper housing portions respectively having lower and upper seal flanges at the horizontal junction of the lower and upper housing portions;

a vacuum source for drawing a vacuum within the deposition chamber:

a seal assembly having inner and outer seal members that extend between the lower and upper seal flanges of the lower and upper housing portions at their horizontal junction to seal therebetween, and the inner and outer seal members being in spaced from each other to define an intermediate seal space in which a vacuum is drawn between the deposition chamber and the ambient;

clamps that each include a hydraulic cylinder for securing the lower and upper seal flanges to each other;

a sensor for detecting the pressure within the seal space to sense leakage of either the inner seal member or the outer seal member;

a roll conveyor located within the deposition chamber and having rolls for conveying glass sheet substrates along a direction of conveyance at a plane of conveyance below the horizontal junction of the lower and upper housing portions where the seal assembly is located;

a screen located below the roll conveyor to catch any broken glass sheet substrates:

an oven located within the housing with the roll conveyor conveying the glass sheet substrates therethrough, the oven having elongated heaters that extend along the direction of conveyance in laterally spaced banks to heat the conveyed glass sheet substrates and control temperature differentials of the substrates laterally with respect to the direction of conveyance, and each elongated heater including an electric resistance element through which electricity is passed to provide heating and each heater including an elongated quartz tube through which the electric resistance element extends:

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a chemical vapor distributor located within the deposition chamber above the roll conveyor to provide chemical vapor deposition of a coating on the conveyed glass sheet substrates;

the housing including an entry through which the glass sheet substrates to be coated are introduced into the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located; and

the housing including an exit through which the coated glass sheet substrates leave the deposition chamber at a location below the horizontal junction of the lower and upper housing portions where the seal assembly is located.